

## Build Season is Here!!!

2TRAIN IS READY FOR  
WHAT THIS YEAR  
BRINGS US

## Weekly Roundup

WHAT EACH  
SUBGROUP HAS  
BEEN UP TO

## Weekend Kickoff

HOW 2TRAIN  
TACKLED KICKOFF  
DURING THE  
WEEKEND

## About Us

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# 2Train Drives Into the 2019 Build Season



## The Weekly Roundup

The media and fundraising teams goals this week are to work towards completing our Chairman's submission. The fundraising team is planning on many miscellaneous assignments for fundraising, such as a future journal of this years 20th anniversary. Fundraising team is taking advertisement requests for this journal, as we plan to reveal this journal on the 4th of May. The media team plans to

be more active on our social media pages. Such as our Instagram, we are participating in the #7DayBlackAndWhiteChallenge. The #7DayBlackAndWhiteChallenge is about uploading a picture once a day without a caption, however you are allowed to tag other robotics teams. Media and fundraising team also has a new snapchat, you can contact us here @frc395. Finally the media team plans on updating the official website more often, you can also find an archive of our newsletters under the tab called Newsletter.

The programming team has a variety of goals for the week, they had a very hectic week. Essential things that needed to be done was: making sure all equipment was working, cleaning up the laptops, setting up development environments, and discussing workflow. Programming works hand in hand with many of the mechanical assignments, so discussing things such as how to approach the sandstorm period is essential, as well as the workflow with it among many other things. Things that were worked on with code were for: working with limelight, prototype sensors for tape alignment, and switching between targets. Many of the things that were put into place is another way we can stay ahead of teams who don't. The start of all games have a sandstorm period, this means vision is blocked for drivers. The programming team is starting to develop ways to bypass this obstruction.

The mechanical teams goals this week is to start prototyping mechanisms of the robot. Some of the things that mechanical team is aiming to design are: cargo intake, hatch panel intake, scoring cargo, and climbing mechanics. Those are the key main goals that the mechanical team is attempting to complete. Ultimately those are key goals that every team must decide how to approach in how they expect their build of the robot to go. Something that was built this week was a device to grab a hatch panel from the loading dock. Another mechanism that was prototyped, helps the robot launch cargo.

## *2Train in the lab!*



# Kickoff Weekend

## SATURDAY

Saturday the 5th, was kickoff for FIRST Robotics. 10 Students from 2Train were allowed to attend the event. The presentation at Columbia University was a Twitch livestream put onto a projection screen. All of the students who showed up at the presentation were eager to get a head start on build season. The Twitch livestream presented by FIRST robotics introduced the main basis of the game is to score higher than the opposing alliance. Scoring is performed by placing hatch panels in correct spaces, and placing cargo into the appropriate containers. FIRST provide the code to the game manual, and later provided all teams with a kit of parts to help build the robot.

## SUNDAY

Sunday the 6th, was 2Trains team wide kickoff. This was a day for everyone to come to the lab and start talking about our objectives for build season. The entire day was solely about brainstorming for the build season, guests came to help us brainstorm. As much as you would think that building would go into effect after Saturday, we needed to ensure the entire team was on board with our ideas. This day was very important for all members of our team going forward.

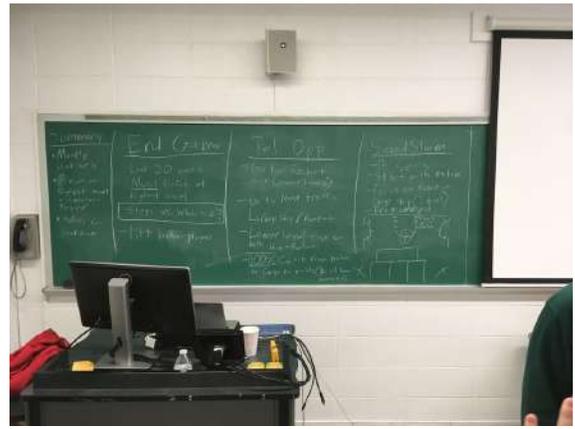


Photo above: A groups work on potential gameplay

## About Us

We are a FIRST® Robotics Competition team based at Columbia University and comprised of students from both Morris High School Campus in Morrisania and Columbia Secondary School in Harlem. Team 395 provides students with opportunities to pursue their goals in the fields of science, technology, engineering, and mathematics (STEM). This is made possible by our dedicated mentors and amazing sponsors. We want to build a community here at 2Train, we want you to be involved for the ride. You can contact us using any of the following links.

Twitter) <https://twitter.com/frc395>

Facebook) <https://www.facebook.com/2TrainRobotics/>

Official Website) <https://www.2train395.com>

Youtube) [www.youtube.com/channel/UCIfPWrn7C-w3Kas61GN1zHQ](http://www.youtube.com/channel/UCIfPWrn7C-w3Kas61GN1zHQ)

Snapchat) @frc395